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RITG-180  
January 31, 1962  
2683

Those Listed Below

S. R. Sapirie, Manager, Oak Ridge Operations

Classification Changed to UNCLASSIFIED

By Authority of DAA-L & PA-2

Classification Authority

CLASSIFICATION OF ORO PARTICIPATION IN THE  
PINCHBOTTLE AND BRANDY PROGRAMS

By R. B. Martin, Analysis Corp. 4-24-

OPO:ELK

Date  
R. Anderson 5-2-90

Reference is made to C. L. Marshall's memorandum to F. P. Baranowski dated November 8, 1961, subject, "Brandy Production", symbol C:DJP.

We are planning to revise the ORO Feed Materials Classification Guide to reflect classification guidance for the current feed manufacturing operations. In view of the very close tie-in of the U-236 recycle and Np-237 recovery programs with feed materials operations, we plan to include classification guidance on these programs in the Feed Materials Guide. As a result of the declassification action taken in the memorandum referenced above and similar action with regard to SRP separations, we are listing below the general classification criteria we believe appropriate for ORO participation in these programs.

1. The fact that U-236 recycle and Np-237 recovery is, or may be in the future, involved in all flows of production reactor materials returned to or shipped from ORO facilities is unclassified.
2. In addition to the flows, the combined annual quantities of Np-237 received and recovered at Y-12 (purified at ORNL and shipped directly to SRO) and Paducah are unclassified. The fraction of Np-237 in the  $UO_3$  or UNH received at ORO facilities of that originally formed in the reactors will, of course, remain Secret-RD. The rationale behind this criterion is as follows:
  - (a) The majority of the Np-237 will be recovered at the reactor sites. Only about 5%, or less, of the overall Np-237 production will be recovered under ORO cognizance at Y-12 and Paducah.
  - (b) The fact that the AEC will separate relatively large quantities of Pu-238 for space power sources is unclassified.

ORO113244

Addressees:

C. L. Marshall, Director, Division of Classification, Washington  
F. P. Baranowski, Director, Division of Production, Washington

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-2-

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(c) The total quantity of Np-237 recovered at Y-12 and Paducah will not satisfy more than about 30 to 40% of the conservative space requirements for Pu-238 as stated in AEC 814/10.

3. Discontinue the use of code words "Pinchbottle", "Brandy" and "Wine" when referring to space requirements for Pu-238. (Reliance upon these code words to protect weapons applications should also be re-evaluated at this time.)

As an alternate to a blanket declassification of the quantities of Np-237 recovered at Y-12 and Paducah you may wish to declassify all separations up to 2 kgs/year. This would be an increase of 1.5 kgs over the present limitation (for Paducah only) of 500 grams/year in topic 5.2 of OC-DOC-65.

The above items need to be resolved expeditiously in order that we may proceed with the development of the ORO Feed Materials Guide. Should you desire additional information, please advise.

ORIGINAL SIGNED BY

E. A. Saper

*for* S. R. Saper

CC: F. P. Callaghan  
J. W. Ruch  
L. R. Michener  
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*Open  
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1/30*

| OFFICE  | Prod. Div.   | Prod. Div.         | Prod. Div.         | Class.             | Feed Materials     | Dep.               |
|---------|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|         | ELKeller/mjk | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| SURNAME | 1-23-62      | <i>[Signature]</i> | <i>[Signature]</i> | 1-23-62            | <i>[Signature]</i> | <i>[Signature]</i> |
| DATE    |              | <i>[Signature]</i> | <i>[Signature]</i> |                    | <i>[Signature]</i> | <i>[Signature]</i> |